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HDR10120001300803299515 00Wool and Mohair
HDR20120001300803299515 00Wool and Mohair Narrative

Released March 29, 1995, by the Agricultural Statistics Board. Production estimates refer to 1994 and stocks estimates to January 1, 1995.

1994 Wool Production Down 11 Percent

Shorn wool production in the United States during 1994 was 68.6 million pounds, down 11 percent from 1993. Sheep and lambs shorn totaled 8.88 million head, also a decrease of 11 percent from 1993. The average price paid for wool sold in 1994 was $0.78 per pound for a total value of $52.4 million, up 34 percent from $39.1 million in 1993.

There were 51.9 million pounds of domestic and foreign apparel and carpet scoured raw wool stored in the United States on January 1, 1995.

Wool: Production, Price, and Value, United States, 1992-94

Year	Sheep Shorn 1/	Weight per Fleece	Shorn Wool Production	Price per Pound 2/	Value
	1,000 Head	Pounds	1,000 Pounds	Dollars	1,000 Dollars
1992	10,521	7.88	82,943	.74	60,162
1993	*9,976	*7.77	*77,535	.51	*39,077
1994	8,882	7.73	68,643	.78	52,419

* Revised.
1/ Includes shearing at commercial feeding yards.
2/ Weighted by sales.

Wool Stocks: Apparel and Carpet Wool, Scoured Basis, United States, January 1, 1995 1/

Year	Grand Total 2/	Apparel		Carpet
		Total 2/	Domestic	Foreign	
	Million Pounds				
1995	51.9	48.6	22.3	26.2	3.4

1/ Including washed wool, stocks held on consignment, stocks in custom bonded warehouses and stocks in the process of manufacture up to the carding operation. Data does not include pulled wool and stocks held for the account of domestic growers except that held on consignment for growers. Data not included for companies with stocks of less than 10,000 pounds.
2/ Total may not add due to rounding.

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Mohair production in the five major producing States (Arizona, Michigan, New Mexico, Oklahoma, and Texas) during 1994 was 12.6 million pounds, down 15 percent from 1993. Goats and kids clipped, at 1.77 million head, were down

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17 percent from 1993. Average weight per head clipped was 7.1 pounds compared with 6.9 pounds a year earlier. Value of mohair production was $32.2 million, up 167 percent from 1993.

HDR20120001300803299515 00Production, Price, and Value

Mohair: Production, Price, and Value, 5-State Total, 1992-94

Year	Goats Clipped	Average Clip per Goat	Production	Price per Pound 1/	Value 2/
	1,000 Head	Pounds	1,000 Pounds	Dollars	1,000 Dollars
1992	2,254	6.9	15,582	.86	13,389
1993	2,145	6.9	*14,847	.82	*12,066
1994	1,774	7.1	12,608	2.56	32,247

* Revised.
1/ Weighted by sales.
2/ Production multiplied by marketing year average price for individual States. 5- St value is summation of State values.

Mohair: Production, Price, and Value by Selected States and 5-State Total, 1993-94

State	Goats Clipped		Average Clip per Goat		Production		Price per Pound 1/		Value 2/	
	1993	1994	1993	1994	1993	1994	1993	1994	1993	1994
	1,000 Head		Pounds		1,000 Pounds		Dollars		1,000 Dollars	
AZ	70	49	4.4	4.1	310	200	.32	.74	99	148
MI	8	7	*10.6	10.0	*85	70	.94	2.67	*80	187
NM	110	85	4.5	4.5	495	383	.63	1.61	312	617
OK	57	33	8.2	8.3	467	275	.81	2.52	378	693
TX	1,900	1,600	7.1	7.3	13,490	11,680	.83	2.62	11,197	30,602
5 Sts	2,145	1,774	6.9	7.1	*14,847	12,608	.82	2.56	*12,066	32,247

* Revised.
1/ Weighted by sales.
2/ Production multiplied by marketing year average price for individual states; 5- St value is summation of State values.

HDR20120001300803299515 00Wool

Wool: Number of Sheep and Lambs Shorn, Weight per Fleece, and Production by State and United States, 1993-94

State	Sheep Shorn		Weight per Fleece		Production	
	1993	1994	1993	1994	1993	1994
	--- 1,000 Head ---		---- Pounds ----		-- 1,000 Pounds --	
AL	9.0	8.0	5.6	5.8	50	46
AK	.9	1.2	7.8	6.7	7	8

AZ	*185.0	160.0	*7.0	6.9	*1,300	1,100
CA	800.0	695.0	7.6	7.7	6,044	5,318
CO	725.0	635.0	7.2	7.3	5,199	4,607
CT	*6.5	4.5	7.5	7.3	*49	33
ID	245.0	234.0	10.0	9.6	2,454	2,254
IL	99.0	96.0	6.9	6.7	681	639
IN	*86.0	75.8	*6.5	7.2	*562	548
IA	396.0	276.0	6.2	5.9	2,443	1,637
KS	169.0	130.0	7.3	7.0	1,228	908
KY	*27.0	18.5	*6.1	7.0	*165	130
LA	11.5	10.8	6.1	6.0	70	65
ME	*13.0	10.0	7.6	7.6	*99	76
MD	28.0	26.0	6.5	6.9	181	180
MA	*10.0	8.0	7.5	7.3	*75	58
MI	*81.0	79.0	*7.6	7.6	*612	599
MN	210.0	175.0	7.1	6.7	1,484	1,175
MO	99.0	105.0	7.1	6.5	700	686
MT	*570.0	533.0	9.7	9.6	*5,542	5,092
NE	121.0	95.0	7.5	7.1	902	673
NV	70.0	74.0	8.9	9.8	620	722
NH	*6.0	4.5	7.7	7.3	*46	33
NJ	11.4	11.4	7.0	7.5	80	85
NM	419.0	371.0	9.0	8.9	3,774	3,297
NY	61.0	63.0	6.9	7.1	419	448
NC	14.4	12.8	6.9	6.7	99	86
ND	*159.0	135.0	9.4	9.3	*1,496	1,260
OH	*197.0	170.0	7.2	7.1	*1,411	1,200
OK	*71.0	63.0	*7.2	6.2	*510	390
OR	381.0	342.0	6.3	6.6	2,396	2,266
PA	*88.0	81.0	7.0	6.9	*615	562
SD	580.0	520.0	8.6	8.6	5,003	4,465
TN	10.9	9.6	6.4	6.7	70	64
TX	2,340.0	2,120.0	7.3	7.0	17,000	14,840
UT	405.0	384.0	9.7	10.0	3,930	3,843
VT	*15.0	16.0	8.1	6.9	*122	110
VA	76.0	69.1	6.2	5.9	470	409
WA	62.0	47.0	9.3	8.8	575	415
WV	69.0	60.0	5.8	6.0	400	360
WI	*87.0	64.0	*7.5	7.6	*649	488
WY	*920.0	870.0	*8.4	8.4	*7,749	7,343
Oth Sts 1/	41.4	19.2	6.1	6.5	254	125
US	*9,976.0	8,882.4	*7.77	7.73	*77,535	68,643

* Revised.
1/ Includes AR, DE, FL, GA, HI, MS, RI, and SC.

Wool: Price and Value by State and United States, 1993-94

State	Price per Pound 1/		Value 2/	
	1993	1994	1993	1994
	----- Dollars -----		---- 1,000 Dollars ---	
AL	.32	.83	16	38
AK	.95	1.20	7	10
AZ	.41	.47	*533	517
CA	.46	.65	2,780	3,457
CO	.50	.72	2,600	3,317
CT	.51	.62	*25	20

ID	.49	.68	1,202	1,533
IL	.24	.38	163	243
IN	.23	.34	*129	186
IA	.27	.39	660	638
KS	.40	.63	491	572
KY	.34	.53	*56	69
LA	.29	.53	20	34
ME	.69	.80	*68	61
MD	.39	.54	71	97
MA	.59	.79	*44	46
MI	.34	.52	*208	311
MN	.28	.42	416	494
MO	.28	.42	196	288
MT	.54	.86	*2,993	4,379
NE	.36	.50	325	337
NV	.51	.73	316	527
NH	.61	.81	*28	27
NJ	.50	.66	40	56
NM	.57	.83	2,151	2,737
NY	.41	.65	172	291
NC	.45	.61	45	52
ND	.40	.61	*598	769
OH	.31	.48	*437	576
OK	.39	.64	*199	250
OR	.36	.55	863	1,246
PA	.36	.58	*221	326
SD	.51	.75	2,552	3,349
TN	.38	.65	27	42
TX	.65	1.05	11,050	15,582
UT	.57	.70	2,240	2,690
VT	.81	.81	*99	89
VA	.37	.63	174	258
WA	.47	.60	270	249
WV	.35	.56	140	202
WI	.28	.44	*182	215
WY	.54	.84	*4,184	6,168
Oth Sts 3/	.34	.57	86	71
US	.51	.78	*39,077	52,419

* Revised.
1/ Weighted by sales.
2/ Production multiplied by marketing year average price for individual States; US value is summation of State values.
3/ Includes AR, DE, FL, GA, MS, RI, and SC.

HDR20120001300803299515 00Raw Carpet and Apparel Wool

Raw Carpet and Apparel Wool: Commercial Stocks, Domestic and Foreign, by Grade, United States, January 1, 1995 1/

Product	Total Equivalent Scoured Weight 3/	Shorn Greasy Wool: Greasy Weight	Shorn Greasy Wool: Estimated Scoured Weight	Scoured Wool Weight
	1,000 Pounds			
Carpet Wool (incl. rugs, etc.)	3,363	3,079	2,378	986

Apparel Wool (incl. blankets, felt, etc.)				
Domestic				
60's and Finer	14,660	22,061	11,766	2,894
Coarser that 60	7,671	8,725	5,545	2,127
Total Domestic 3/	22,331	30,785	17,310	5,021
Foreign				
60's and Finer	2/	22,269	2/	2/
Coarser than 60	2/	7,190	2/	2/
Total Foreign 3/	26,245	29,459	18,044	8,201
Total Apparel 3/	48,576	60,244	35,354	13,222

1/ Including washed wool, stocks held on consignment, stocks in Custom bonded warehouses and stocks in the process of manufacture up to the carding operation. Data does not include pulled wool and stocks held for the account of domestic growers except that held on consignment for growers. Data not included for companies with stocks of less than 10,000 pounds.
2/ Data not published to avoid disclosing individual operations.
3/ Totals may not add due to rounding.

HDR20120001300803299515 00Stocks by Product, United States

Mohair: Stocks by Product, United States, January 1, 1995 1/

Product	Total Equivalent Scoured Weight	Shorn Greasy Wool		Scoured Wool Weight
		Greasy Weight	Estimated Scoured Weight	
	1,000 Pounds			
Adult Hair (34.0 and coarser Microns)	2/	2/	2/	2/
Young Goat Hair (29.1 - 33.9 Microns)	2/	2/	2/	2/
Kid Hair (29.0 and finer Microns)	1,039	1,305	1,020	19
Total	3,638	5,778	3,164	474

1/ Includes stocks held on consignment and stocks in process of manufacture up to the carding operation.
2/ Data not published to avoid disclosing individual operations.

Wool and Mohair: Stocks of Tops and Noils, United States, January 1, 1995

Product	Tops	Noils
	1,000 Pounds	
Wool	11,289	10,119
Mohair	1/	10,226

1/ Data not published to avoid disclosing individual operations.

HDR20120001300803299515 00Reliability

Reliability of Wool and Mohair Production and Stocks Estimates

Survey Procedures: A random sample of U. S. producers was surveyed to provide data for the number of sheep shorn and production estimates. Survey procedures ensured that all sheep and goat producers, regardless of size, had a chance to be included in the survey. Large producers were sampled more heavily than small operations. Data were collected from about 70,000 operators during the first half of January by mail, telephone, and face-to-face personal interviews.

For the stocks of raw wool and mohair estimates, approximately 400 wool pools, warehouses, buyers, ranchers and processors were contacted. About 150 responded that they had raw wool and/or mohair as of January 1, 1995, and are included in the estimate.

Estimation Procedures: These sheep shorn, wool, and mohair production estimates were prepared by the Agricultural Statistics Board after reviewing recommendations and analysis submitted by each State office. National and State survey data were reviewed for reasonableness with each other and with estimates from past years. Consolidated Farm Service Agency's (CFSA) record of pounds of wool and mohair from producers filing for incentive payments was used as check data.

Revision Policy: Revisions to previous estimates are made to improve the current estimate. Previous year estimates are subject to revision when current estimates are made. Inventory estimates will also be reviewed after data from the Department of Commerce's five-year Census of Agriculture are available. No revisions will be made after that date.

Reliability: Since all operations raising sheep and goats are not included in the sample for the inventory and production estimates, survey data are subject to sampling variability. Survey results for inventory, production and stocks estimates are also subject to non-sampling errors such as omissions, duplications, and mistakes in reporting, recording, and processing the data. The effects of these errors cannot be measured directly. They are minimized through rigid quality controls in the data collection process and through a careful review of all reported data for consistency and reasonableness.

To assist users in evaluating the reliability of the estimates in this report, the "Root Mean Square Error" is shown for selected items in the table below. The "Root Mean Square Error" is a statistical measure based on past performance and is computed using the differences between first and latest estimates. The "Root Mean Square Error" for sheep shorn estimates over the past 9 years is 0.5 percent. This means that chances are 2 out of 3 that the final estimate

will not be above or below the current estimate of 8.9 million head by more than 0.5 percent, or about 44,400 head. Chances are 9 out of 10 that the difference will not exceed 1.0 percent, or about 88,800 head (the 90 percent confidence level).

Also shown in the table is a 9-year record showing the range between the first estimate and the latest estimate. Using estimates for Sheep and Lambs Shorn as an example, changes between the first inventory estimate and the latest estimate during the past 9 years have averaged 46,200 head, ranging from 4,400 to 104,800 head. The inventory estimate of Sheep and Lambs Shorn has been below the latest estimate 6 times and above 3 times in the last 9 years.

Reliability of U.S. Sheep and Lambs Shorn and Wool Production Estimates 1/

Item	Root Mean Square Error	90% Confidence Level	Difference Between First and Latest Estimates			Number of Years	
			Average	Smallest	Largest	First Above Latest	First Below Latest
	- Percent -		1,000 Head			Number	
Sheep Shorn	0.5	1.0	88.8	46.2	4.4	104.8	3	6
			1,000 Pounds				
Wool Prod.	0.7	1.4	1,085.5	378.4	16.0	1,307.0	3	6

1/ Based on data from 1985 through 1993.

The next "Wool and Mohair" report will be released in March 1996.

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1995 Wool Production Down 8 Percent

Shorn wool production in the United States during 1995 was 63.3 million pounds, down 8 percent from 1994. Sheep and lambs shorn totaled 8.11 million head, a decrease of 9 percent from 1994. The average price paid for wool sold in 1995 was $1.04 per pound for a total value of $64.1 million, up 22 percent from $52.4 million in 1994.

Mohair production in the five major producing states (Arizona, Michigan, New Mexico, Oklahoma, and Texas) during 1995 was 12.1 million pounds, down 4 percent from 1994. Goats and kids clipped, at 1.62 million head, was down 8 percent from 1994. Average weight per clip was 7.4 pounds compared with 7.1 pounds a year earlier. Value of mohair production was $22.2 million, down 32 percent from 1994.

Wool: Production, Price, and Value, United States, 1993-95

Year	Sheep Shorn 1/	Weight per Fleece	Shorn Wool Production	Price per Pound 2/	Value 3/
	1,000 Head	Pounds	1,000 Pounds	Dollars	1,000 Dollars
1993	9,976	7.77	77,535	.51	39,077
1994	*8,877	7.73	*68,577	.78	*52,377
1995	8,108	7.81	63,303	1.04	64,124

* Revised.
1/ Includes shearing at commercial feeding yards.
2/ Average local market price for wool sold; does not include incentive payment.
3/ Production multiplied by marketing year average price for individual States; US value is summation of State values.

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Mohair: Production, Price, and Value, 5-State Total, 1993-95

Year	Goats Clipped	Average Clip per Goat	Production	Price per Pound 1/	Value 2/
	1,000 Head	Pounds	1,000 Pounds	Dollars	1,000 Dollars
1993	2,145	6.9	14,847	.82	12,066
1994	1,774	7.1	12,608	2.56	32,247
1995	1,624	7.4	12,059	1.84	22,160

Mohair: Production, Price, and Value by Selected States

and 5-State Total, 1994-95

State	Goats Clipped		Average Clip per Goat		Production		Price per Pound 1/		Value 2/	
	1994	1995	1994	1995	1994	1995	1994	1995	1994	1995
	1,000 Head		Pounds		1,000 Pounds		Dollars		1,000 Dollars	
AZ	49	40	4.1	4.0	200	160	.74	1.52	148	243
MI	7	6	10.0	10.0	70	60	2.67	1.70	187	102
NM	85	85	4.5	4.0	383	340	1.61	1.66	617	564
OK	33	23	8.3	7.8	275	180	2.52	1.73	693	311
TX	1,600	1,470	7.3	7.7	11,680	11,319	2.62	1.85	30,602	20,940
5 Sts	1,774	1,624	7.1	7.4	12,608	12,059	2.56	1.84	32,247	22,160

1/ Average local market price for mohair sold; does not include incentive payment.
2/ Production multiplied by marketing year average price for individual States; 5-State value is summation of State values.

Wool: Number of Sheep and Lambs Shorn, Weight per Fleece, and Production by State and United States, 1994-95

State	Sheep Shorn		Weight per Fleece		Production	
	1994	1995	1994	1995	1994	1995
	1,000 Head		Pounds		1,000 Pounds	
AL	8.0	7.0	5.8	6.0	46	42
AK	1.2	.9	6.7	5.6	8	5
AZ	160.0	140.0	6.9	6.8	1,100	950
CA	695.0	690.0	7.7	7.6	5,318	5,250
CO	635.0	540.0	7.3	7.3	4,607	3,960
CT	4.5	4.5	7.3	7.6	33	34
ID	234.0	233.0	9.6	9.3	2,254	2,164
IL	96.0	86.0	6.7	6.9	639	590
IN	75.8	70.0	7.2	6.8	548	475
IA	276.0	345.0	5.9	6.0	1,637	2,070
KS	130.0	144.0	7.0	7.0	908	1,010
KY	18.5	18.0	7.0	6.8	130	123
LA	10.8	10.0	6.0	5.5	65	55
ME	*9.5	7.5	7.6	7.9	*72	59
MD	26.0	21.0	6.9	8.7	180	182
MA	8.0	6.0	*7.0	7.3	*56	44
MI	79.0	85.0	7.6	7.7	599	658
MN	175.0	170.0	6.7	6.8	1,175	1,150
MO	105.0	90.0	6.5	6.3	686	570
MT	533.0	468.0	9.6	9.4	5,092	4,413
NE	95.0	90.0	7.1	7.6	673	680
NV	74.0	74.0	9.8	9.2	722	680
NH	4.5	5.0	7.3	7.4	33	37
NJ	11.4	10.0	7.5	9.3	85	93
NM	371.0	340.0	8.9	8.8	3,297	3,000
NY	63.0	54.0	7.1	7.0	448	380
NC	12.8	10.5	6.7	6.9	86	72
ND	*130.0	109.0	*9.2	9.1	*1,200	990
OH	170.0	136.0	7.1	7.0	1,200	950

OK	63.0	52.0	6.2	6.3	390	330
OR	342.0	360.0	6.6	6.7	2,266	2,412
PA	81.0	81.0	6.9	6.9	562	560
SD	520.0	460.0	8.6	8.6	4,465	3,967
TN	9.6	10.0	6.7	7.5	64	75
TX	2,120.0	1,820.0	7.0	7.4	14,840	13,468
UT	384.0	360.0	10.0	9.7	3,843	3,500
VT	16.0	12.0	6.9	7.3	110	88
VA	69.1	58.0	5.9	6.2	409	358
WA	47.0	44.0	8.8	8.5	415	375
WV	60.0	54.0	6.0	6.3	360	340
WI	64.0	67.0	7.6	7.8	488	525
WY	870.0	730.0	8.4	8.8	7,343	6,411
Oth Sts 1/	19.2	35.1	6.5	5.9	125	208
US	*8,876.9	8,107.5	7.73	7.81	*68,577	63,303

* Revised.
1/ AR, DE, FL, GA, HI, MS, RI, and SC.

Wool: Price and Value by State and United States, 1994-95

State	Price per Pound 1/		Value 2/	
	1994	1995	1994	1995
	------ Dollars -----		---- 1,000 Dollars ---	
AL	.83	1.15	38	48
AK	1.20	1.25	10	6
AZ	.47	.62	517	589
CA	.65	1.02	3,457	5,355
CO	.72	1.09	3,317	4,316
CT	.62	.78	20	27
ID	.68	.88	1,533	1,904
IL	.38	.55	243	325
IN	.34	.55	186	261
IA	.39	.60	638	1,242
KS	.63	.83	572	838
KY	.53	.70	69	86
LA	.53	.68	34	37
ME	.80	.76	*58	45
MD	.54	.81	97	147
MA	.79	.80	*44	35
MI	.52	.68	311	447
MN	.42	.64	494	736
MO	.42	.64	288	365
MT	.86	1.23	4,379	5,428
NE	.50	.65	337	442
NV	.73	1.08	527	734
NH	.81	.98	27	36
NJ	.66	.76	56	71
NM	.83	1.17	2,737	3,510
NY	.65	.84	291	319
NC	.61	.85	52	61
ND	.61	.94	*732	931
OH	.48	.65	576	618
OK	.64	.79	250	261
OR	.55	.80	1,246	1,930
PA	.58	.78	326	437
SD	.75	1.08	3,349	4,284
TN	.65	.82	42	62

TX	1.05	1.15	15,582	15,488
UT	.70	1.01	2,690	3,535
VT	.81	.84	89	74
VA	.63	.88	258	315
WA	.60	.84	249	315
WV	.56	.88	202	299
WI	.44	.62	215	326
WY	.84	1.20	6,168	7,693
Oth Sts 3/	.57	.70	71	146
US	.78	1.04	*52,377	64,124

* Revised.
1/ Average local market price for wool sold; does not include incentive payment.
2/ Production multiplied by marketing year average price for individual States, US value is summation of State values.
3/ AR, DE, FL, GA, MS, RI, and SC.

Reliability of Wool and Mohair Production Estimates

Survey Procedures: A random sample of U. S. producers was surveyed to provide data for the number of sheep shorn and production estimates. Survey procedures ensured that all sheep and goat producers, regardless of size, had a chance to be included in the survey. Large producers were sampled more heavily than small operations. Data were collected from about 18,000 operators during the first half of January by mail, telephone, and face-to-face personal interviews.

Estimation Procedures: These sheep shorn, wool and mohair production estimates were prepared by the Agricultural Statistics Board after reviewing recommendations and analysis submitted by each State office. National and State survey data were reviewed for reasonableness with each other and with estimates from past years. Farm Service Agency's (FSA) record of pounds of wool and mohair from producers filing for incentive payments was used as check data.

Revision Policy: Revisions to previous estimates are made to improve the current estimate. Previous year estimates are subject to revision when current estimates are made. Inventory estimates will also be reviewed after data from the Department of Commerce's five-year Census of Agriculture are available. No revisions will be made after that date.

Reliability: Since all operations raising sheep and goats are not included in the sample for the inventory and production estimates, survey data are subject to sampling variability. Survey results for inventory and production estimates are also subject to non-sampling errors, such as omissions, duplications, and mistakes in reporting, recording, and processing the data. The effects of these errors cannot be measured directly. They are minimized through rigid quality controls in the data collection process and through a careful review of all reported data for consistency and reasonableness.

To assist users in evaluating the reliability of the estimates in this report, the "Root Mean Square Error" is shown for selected items in the table below. The "Root Mean Square Error" is a statistical measure based on past performance and is computed using the differences between first and latest

estimates. The "Root Mean Square Error" for sheep shorn estimates over the past 10 years is 0.5 percent. This means that chances are 2 out of 3 that the final estimate will not be above or below the current estimate of 7.7 million head by more than 0.5 percent, or about 38,800 head. Chances are 9 out of 10 that the difference will not exceed 1.0 percent, or about 77,600 head (the 90 percent confidence level).

Also shown in the table is a 10-year record showing the range between the first estimate and the latest estimate. Using estimates for Sheep and Lambs Shorn as an example, changes between the first inventory estimate and the latest estimate during the past 10 years have averaged 42,200 head, ranging from 4,400 to 104,800 head. The inventory estimate of Sheep and Lambs Shorn has been below the latest estimate 6 times and above 4 times in the last 10 years.

Reliability of U.S. Sheep Shorn and Wool Production Estimates 1/

Item	Root Mean Square Error	90% Confidence Level	Difference Between First and Latest Estimates			Number of Years	
			Average	Smallest	Largest	First Above Latest	First Below Latest
	----- Percent ----		------- 1,000 Head ------			Number	
Sheep Shorn:							
	0.5	1.0	77.6	42.2	4.4	104.8	4	6
				1,000 Pounds			
Wool Prod	0.6	1.2	759.6	347.2	16.0	1,307.0	4	6

1/ Based on data from 1985 through 1995.

The next "Wool and Mohair" report will be released in March 1997.

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1996 Wool Production Down 11 Percent

Shorn wool production in the United States during 1996 was 56.7 million pounds, down 11 percent from 1995. Sheep and lambs shorn totaled 7.28 million head, a decrease of 11 percent from 1995. The average price paid for wool sold in 1996 was $0.70 per pound for a total value of $39.7 million, down 38 percent from $64.3 million in 1995.

Mohair production in the four major producing states (Arizona, New Mexico, Oklahoma, and Texas) during 1996 was 8.05 million pounds, down 33 percent from 1995. Goats and kids clipped, at 1.20 million head, was down 26 percent from 1995. Average weight per clip was 6.7 pounds compared with 7.4 pounds a year earlier. Value of mohair production was $15.5 million, down 30 percent from 1995.

Wool: Production, Price, and Value, United States, 1994-96

Year	Sheep Shorn 1/	Weight per Fleece	Shorn Wool Production	Price per Pound	Value
	1,000 Head	Pounds	1,000 Pounds	Dollars	1,000 Dollars
1994	8,877	7.73	68,577	.78	52,377
1995	*8,138	7.80	63,513	1.04	*64,277
1996	7,279	7.79	56,669	.70	39,659

* Revised.
1/ Includes shearing at commercial feeding yards.

Lv Gn 2 (3-97)

Mohair: Production, Price, and Value, 4-State Total, 1994-96

Year	Goats Clipped	Average Clip per Goat	Production	Price per Pound	Value 1/
	1,000 Head	Pounds	1,000 Pounds	Dollars	1,000 Dollars
1994	1,774	7.1	12,608	2.56	32,247
1995	1,618	7.4	*12,019	1.84	*22,089
1996	1,198	6.7	8,045	1.92	15,486

Mohair: Production, Price, and Value by Selected States

and 4-State Total, 1995-96

State	Goats Clipped		Average Clip per Goat		Production		Price per Pound		Value 1/	
	1995	1996	1995	1996	1995	1996	1995	1996	1995	1996
	1,000 Head		Pounds		1,000 Pounds		Dollars		1,000 Dollars	
AZ	40	38	*4.5	4.2	*180	160	1.52	1.47	*274	235
NM	85	80	4.0	4.0	340	320	1.66	1.61	564	515
OK	23	10	7.8	7.5	180	75	1.73	1.73	311	130
TX	1,470	1,070	7.7	7.0	11,319	7,490	1.85	1.95	20,940	14,606
4 Sts	1,618	1,198	7.4	6.7	*12,019	8,045	1.84	1.92	*22,089	15,486

* Revised.
1/ Production multiplied by marketing year average price for individual States; 4-State value is summation of State values.

Wool: Number of Sheep and Lambs Shorn, Weight per Fleece, and Production by State and United States, 1995-96

State	Sheep Shorn		Weight per Fleece		Production	
	1995	1996	1995	1996	1995	1996
	--- 1,000 Head ---		--- Pounds ---		-- 1,000 Pounds --	
AL	7.0	5.0	6.0	6.0	42	30
AK	.9	1.0	*7.8	7.0	*7	7
AZ	140.0	125.0	6.8	6.0	950	750
CA	690.0	640.0	7.6	7.6	5,250	4,860
CO	540.0	605.0	7.3	7.1	3,960	4,318
CT	4.5	5.4	7.6	6.5	34	35
ID	233.0	239.0	9.3	9.3	2,164	2,228
IL	86.0	85.0	6.9	6.7	590	570
IN	70.0	67.0	6.8	6.4	475	430
IA	345.0	335.0	6.0	6.0	2,070	2,000
KS	144.0	111.0	7.0	7.0	1,010	780
KY	18.0	15.5	6.8	6.5	123	100
LA	10.0	9.0	5.5	6.1	55	55
ME	7.5	8.0	7.9	7.0	59	56
MD	21.0	24.0	8.7	6.7	182	161
MA	6.0	9.0	7.3	7.0	44	63
MI	85.0	81.0	7.7	7.6	658	615
MN	170.0	170.0	6.8	6.6	1,150	1,120
MO	90.0	77.0	*6.4	6.7	*572	513
MT	468.0	434.0	9.4	9.6	4,413	4,150
NE	90.0	97.0	7.6	7.4	680	720
NV	74.0	70.0	9.2	9.6	680	669
NH	*5.1	5.1	*7.1	7.1	*36	36
NJ	10.0	14.0	9.3	6.9	93	96
NM	340.0	305.0	8.8	9.0	3,000	2,753
NY	54.0	53.0	7.0	7.1	380	377
NC	10.5	10.6	6.9	6.7	72	71
ND	*115.0	110.0	9.1	8.8	*1,045	965
OH	*156.0	133.0	*7.1	6.8	*1,100	910
OK	52.0	36.0	6.3	6.4	330	230
OR	360.0	340.0	6.7	6.6	2,412	2,245
PA	81.0	72.0	6.9	6.9	560	500

SD	460.0	420.0	8.6	8.5	3,967	3,580
TN	10.0	10.0	7.5	6.0	75	60
TX	1,820.0	1,320.0	7.4	7.5	13,468	9,900
UT	*364.0	336.0	*9.6	9.2	3,500	3,090
VT	*12.5	14.5	*7.2	7.2	*90	105
VA	58.0	56.0	6.2	6.2	358	346
WA	44.0	48.0	8.5	8.9	375	426
WV	54.0	45.0	6.3	6.0	340	270
WI	67.0	63.0	7.8	7.5	525	470
WY	730.0	640.0	8.8	9.1	6,411	5,811
Oth Sts 1/	35.1	34.7	5.9	5.7	208	198
US	*8,138.1	7,278.8	7.8	7.8	*63,513	56,669

* Revised.
1/ AR, DE, FL, GA, HI, MS, RI, and SC.

Wool: Price and Value by State and United States, 1995-96

State	Price per Pound		Value 1/	
	1995	1996	1995	1996
	------ Dollars -----		---- 1,000 Dollars ---	
AL	1.15	.38	48	11
AK	1.25	.90	*9	6
AZ	.62	.61	589	458
CA	1.02	.67	5,355	3,256
CO	1.09	.73	4,316	3,152
CT	.78	.40	27	14
ID	.88	.62	1,904	1,381
IL	.55	.34	325	194
IN	.55	.31	261	133
IA	.60	.39	1,242	780
KS	.83	.51	838	398
KY	.70	.33	86	33
LA	.68	.33	37	18
ME	.76	.45	45	25
MD	.81	.49	147	79
MA	.80	.40	35	25
MI	.68	.36	447	221
MN	.64	.43	736	482
MO	.64	.36	*366	185
MT	1.23	.94	5,428	3,901
NE	.65	.49	442	353
NV	1.08	.69	734	462
NH	.98	.60	*35	22
NJ	.76	.78	71	75
NM	1.17	.85	3,510	2,340
NY	.84	.55	319	207
NC	.85	.62	61	44
ND	.94	.70	*982	676
OH	.65	.39	*715	355
OK	.79	.50	261	115
OR	.80	.45	1,930	1,010
PA	.78	.49	437	245
SD	1.08	.77	4,284	2,757
TN	.82	.42	62	25
TX	1.15	.84	15,488	8,316
UT	1.01	.65	3,535	2,009
VT	.84	.60	*76	63
VA	.88	.48	315	166

WA	.84	.60	315	256
WV	.88	.51	299	138
WI	.62	.42	326	197
WY	1.20	.86	7,693	4,997
Oth Sts 2/	.70	.40	146	79
US	1.04	.70	*64,277	39,659

* Revised.
1/ Production multiplied by marketing year average price. U.S. value is summation of State values.
2/ AR, DE, FL, GA, MS, RI, SC.

Reliability of Wool and Mohair Production Estimates

Survey Procedures: A random sample of U. S. producers was surveyed to provide data for the number of sheep shorn and production estimates. Survey procedures ensured that all sheep and goat producers, regardless of size, had a chance to be included in the survey. Large producers were sampled more heavily than small operations. Data were collected from about 16,000 operators during the first half of January by mail, telephone, and face-to-face personal interviews.

Estimation Procedures: These sheep shorn, wool and mohair production estimates were prepared by the Agricultural Statistics Board after reviewing recommendations and analysis submitted by each State office. National and State survey data were reviewed for reasonableness with each other and with estimates from past years.

Revision Policy: Revisions to previous estimates are made to improve the current estimate. Previous year estimates are subject to revision when current estimates are made. Inventory estimates will also be reviewed after data from the Department of Commerce's five-year Census of Agriculture are available. No revisions will be made after that date.

Reliability: Since all operations raising sheep and goats are not included in the sample for the inventory and production estimates, survey data are subject to sampling variability. Survey results for inventory and production estimates are also subject to non-sampling errors, such as omissions, duplications, and mistakes in reporting, recording, and processing the data. The effects of these errors cannot be measured directly. They are minimized through rigid quality controls in the data collection process and through a careful review of all reported data for consistency and reasonableness.

To assist users in evaluating the reliability of the estimates in this report, the "Root Mean Square Error" is shown for selected items in the table below. The "Root Mean Square Error" is a statistical measure based on past performance and is computed using the differences between first and latest estimates. The "Root Mean Square Error" for sheep shorn estimates over the past 10 years is 0.5 percent. This means that chances are 2 out of 3 that the final estimate will not be above or below the current estimate of 7.3 million head by more than 0.5 percent, or about 36,500 head. Chances are 9 out of 10 that the difference will not exceed 1.0 percent, or about 72,800 head (the 90 percent confidence level).

Also shown in the table is a 10-year record showing the range between the first estimate and the latest estimate. Using estimates for Sheep and Lambs

Shorn as an example, changes between the first inventory estimate and the latest estimate during the past 10 years have averaged 44,100 head, ranging from 4,400 to 104,000 head. The inventory estimate of Sheep and Lambs Shorn has been below the latest estimate 6 times and above 4 times in the last 10 years.

Reliability of U.S. Sheep Shorn and Wool Production Estimates 1/

Item	Root Mean Square Error	90% Confidence Level	Difference Between First and Latest Estimates			Number of Years	
			Average	Smallest	Largest	First Above Latest	First Below Latest
	----- Percent ----		-------- 1,000 Head -------			Number	
Sheep Shorn:							
	.5	1.0	72.8	44.1	4.4	104.8	4	6
			1,000 Pounds				
Wool Prod	.6	1.2	680.0	359.3	16.0	1,307.0	4	6

1/ Based on data from 1996 through 1995.

The next "Wool and Mohair" report will be released in March 1998.

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1997 Wool Production Down 5 Percent

Shorn wool production in the United States during 1997 was 53.9 million pounds, down 5 percent from 1996. Sheep and lambs shorn totaled 7.03 million head, a decrease of 3 percent from 1996. The average price paid for wool sold in 1997 was $0.84 per pound for a total value of $45.2 million, up 14 percent from $39.7 million in 1996.

Mohair production in the four major producing states (Arizona, New Mexico, Oklahoma, and Texas) during 1997 was 6.93 million pounds, down 14 percent from 1996. Goats and kids clipped, at .95 million head, were down 20 percent from 1996. Average weight per clip was 7.3 pounds compared with 6.7 pounds a year earlier. Value of mohair was $15.6 million, up slightly from 1996.

Wool: Production, Price, and Value, United States, 1995-97

Year	Sheep Shorn 1/	Weight per Fleece	Shorn Wool Production	Price per Pound	Value
	1,000 Head	Pounds	1,000 Pounds	Dollars	1,000 Dollars
1995	8,138	7.80	63,513	1.04	64,277
1996	7,279	7.79	56,669	0.70	39,659
1997	7,032	7.66	53,889	0.84	45,172

1/ Includes shearing at commercial feeding yards.

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Mohair: Production, Price, and Value, 4-State Total, 1995-97

Year	Goats Clipped	Average Clip per Goat	Production	Price per Pound	Value 1/
	1,000 Head	Pounds	1,000 Pounds	Dollars	1,000 Dollars
1995	1,618	7.4	12,019	1.84	22,089
1996	1,198	6.7	8,045	1.92	15,486

1997	953	7.3	6,929	2.25	15,563

Mohair: Production, Price, and Value by Selected States and 4-State Total, 1996-97

State	Goats Clipped		Average Clip per Goat		Production		Price per Pound		Value 1/	
	1996	1997	1996	1997	1996	1997	1996	1997	1996	1997
	1,000 Head		Pounds		1,000 Pounds		Dollars		1,000 Dollars	
AZ	38	38	4.2	4.2	160	160	1.47	1.70	235	272
NM	80	70	4.0	5.0	320	350	1.61	1.90	515	665
OK	10	5	7.5	7.0	75	35	1.73	2.00	130	70
TX	1,070	840	7.0	7.6	7,490	6,384	1.95	2.28	14,606	14,556
4 Sts	1,198	953	6.7	7.3	8,045	6,929	1.92	2.25	15,486	15,563

1/ Production multiplied by marketing year average price for individual States; 4-State value is summation of State values.

Wool: Number of Sheep and Lambs Shorn, Weight per Fleece, and Production by State and United States, 1996-97

State	Sheep Shorn		Weight per Fleece		Production	
	1996	1997	1996	1997	1996	1997
	1,000 Head		Pounds		1,000 Pounds	
AL	5.0	5.0	6.0	6.0	30	30
AK	1.0	1.0	7.0	7.0	7	7
AZ	125.0	120.0	6.0	6.4	750	770
CA	640.0	580.0	7.6	7.6	4,860	4,400
CO	605.0	600.0	7.1	6.6	4,318	3,936
CT	5.4	4.8	6.5	7.5	35	36
ID	239.0	246.0	9.3	9.2	2,228	2,265
IL	85.0	82.0	6.7	6.7	570	546
IN	67.0	55.0	6.4	6.3	430	344
IA	335.0	260.0	6.0	6.0	2,000	1,550
KS	111.0	98.0	7.0	7.0	780	690
KY	15.5	13.5	6.5	6.2	100	84
LA	9.0	8.5	6.1	5.9	55	50
ME	8.0	9.0	7.0	7.6	56	68
MD	24.0	25.0	6.7	6.6	161	165
MA	9.0	8.5	7.0	7.2	63	61
MI	81.0	74.0	7.6	7.3	615	540
MN	170.0	155.0	6.6	6.5	1,120	1,010
MO	77.0	74.0	6.7	6.8	513	506
MT	434.0	402.0	9.6	9.5	4,150	3,813
NE	97.0	85.0	7.4	7.6	720	644
NV	70.0	70.0	9.6	8.9	669	620
NH	5.1	5.3	7.1	7.2	36	38
NJ	14.0	11.0	6.9	6.7	96	74
NM	305.0	280.0	9.0	9.1	2,753	2,556
NY	53.0	51.0	7.1	6.7	377	343

NC	10.6	9.7	6.7	6.4	71	62
ND	110.0	98.0	8.8	8.8	965	860
OH	133.0	116.0	6.8	6.4	910	745
OK	36.0	43.0	6.4	7.1	230	305
OR	340.0	290.0	6.6	6.5	2,245	1,880
PA	72.0	68.0	6.9	6.9	500	470
SD	420.0	390.0	8.5	8.5	3,580	3,302
TN	10.0	11.0	6.0	6.1	60	67
TX	1,320.0	1,500.0	7.5	7.3	9,900	10,950
UT	336.0	308.0	9.2	9.4	3,090	2,905
VT	14.5	10.5	7.2	7.2	105	76
VA	56.0	53.0	6.2	6.0	346	319
WA	48.0	43.0	8.9	8.7	426	375
WV	45.0	40.0	6.0	6.0	270	240
WI	63.0	67.0	7.5	7.4	470	496
WY	640.0	625.0	9.1	8.8	5,811	5,485
Oth Sts 1/	34.7	35.7	5.7	5.8	198	206
US	7,278.8	7,031.5	7.8	7.7	56,669	53,889

1/ AR, DE, FL, GA, HI, MS, RI, and SC.

Wool: Price and Value by State and United States, 1996-97

State	Price per Pound		Value 1/	
	1996	1997	1996	1997
	------ Dollars -----		---- 1,000 Dollars ---	
AL	0.38	0.48	11	14
AK	0.90	1.00	6	7
AZ	0.61	0.58	458	447
CA	0.67	0.79	3,256	3,476
CO	0.73	0.89	3,152	3,503
CT	0.40	0.55	14	20
ID	0.62	0.74	1,381	1,676
IL	0.34	0.43	194	235
IN	0.31	0.34	133	117
IA	0.39	0.42	780	651
KS	0.51	0.58	398	400
KY	0.33	0.41	33	34
LA	0.33	0.58	18	29
ME	0.45	0.50	25	34
MD	0.49	0.68	79	112
MA	0.40	0.60	25	37
MI	0.36	0.44	221	238
MN	0.43	0.43	482	434
MO	0.36	0.45	185	228
MT	0.94	1.01	3,901	3,851
NE	0.49	0.52	353	335
NV	0.69	0.90	462	558
NH	0.60	0.65	22	25
NJ	0.78	0.55	75	41
NM	0.85	1.07	2,340	2,735
NY	0.55	0.54	207	185
NC	0.62	0.59	44	37
ND	0.70	0.76	676	654
OH	0.39	0.43	355	320
OK	0.50	0.58	115	177
OR	0.45	0.61	1,010	1,147

PA	0.49	0.53	245	249
SD	0.77	0.90	2,757	2,972
TN	0.42	0.50	25	34
TX	0.84	1.06	8,316	11,607
UT	0.65	0.75	2,009	2,179
VT	0.60	0.65	63	49
VA	0.48	0.58	166	185
WA	0.60	0.65	256	244
WV	0.51	0.61	138	146
WI	0.42	0.53	197	263
WY	0.86	0.98	4,997	5,375
Oth Sts 2/	0.40	0.55	79	113
US	0.70	0.84	39,659	45,172

1/ Production multiplied by marketing year average price. U.S. value is summation of State values.
2/ AR, DE, FL, GA, MS, RI, SC.

Reliability of Wool and Mohair Production Estimates

Survey Procedures: A random sample of U. S. producers was surveyed to provide data for the number of sheep shorn and production estimates. Survey procedures ensured that all sheep and goat producers, regardless of size, had a chance to be included in the survey. Large producers were sampled more heavily than small operations. Data were collected from about 15,000 operators during the first half of January by mail, telephone, and face-to-face personal interviews.

Estimation Procedures: These sheep shorn, wool and mohair production estimates were prepared by the Agricultural Statistics Board after reviewing recommendations and analysis submitted by each State office. National and State survey data were reviewed for reasonableness with each other and with estimates from past years.

Revision Policy: Revisions to previous estimates are made to improve the current estimate. Previous year estimates are subject to revision when current estimates are made. Inventory estimates will also be reviewed after data from the Department of Agriculture's five-year Census of Agriculture are available. No revisions will be made after that date.

Reliability: Since all operations raising sheep and goats are not included in the sample for the inventory and production estimates, survey data are subject to sampling variability. Survey results for inventory and production estimates are also subject to non-sampling errors, such as omissions, duplications, and mistakes in reporting, recording, and processing the data. The effects of these errors cannot be measured directly. They are minimized through rigid quality controls in the data collection process and through a careful review of all reported data for consistency and reasonableness.

To assist users in evaluating the reliability of the estimates in this report, the "Root Mean Square Error" is shown for selected items in the table below. The "Root Mean Square Error" is a statistical measure based on past performance and is computed using the differences between first and latest estimates. The "Root Mean Square Error" for sheep shorn estimates over the past 10 years is 0.5 percent. This means that chances are 2 out of 3 that the final estimate will not be above or below the

current estimate of 7.0 million head by more than 0.5 percent, or about 35,100 head. Chances are 9 out of 10 that the difference will not exceed 0.9 percent, or about 63,300 head (the 90 percent confidence level).

Also shown in the table is a 10-year record showing the range between the first estimate and the latest estimate. Using estimates for Sheep and Lambs Shorn as an example, changes between the first inventory estimate and the latest estimate during the past 10 years have averaged 42,000 head, ranging from 0 to 105,000 head. The inventory estimate of Sheep and Lambs Shorn has been below the latest estimate 5 times and above 4 times in the last 10 years.

Reliability of U.S. Sheep Shorn and Wool Production Estimates 1/

Item	Root Mean Square Error	90% Confidence Level	Difference Between First and Latest Estimates			Years	
			Average	Smallest	Largest	First Above Latest	First Below Latest
	Percent		1,000 Head			Number	
Sheep Shorn	0.5	0.9	63.3	42.0	0.0	105.0	4	5
	Percent		1,000 Pounds			Number	
Wool Prod	0.6	1.1	593.0	358.0	0.0	1,307.0	4	5

1/ Based on data for the past ten years.

The next "Wool and Mohair" report will be released in March 1999.

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Wool and Mohair

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1998 Wool Production Down 8 Percent

Shorn wool production in the United States during 1998 was 49.2 million pounds, down 8 percent from 1997. Sheep and lambs shorn totaled 6.43 million head, a decrease of 8 percent from 1997. The average price paid for wool sold in 1998 was $0.60 per pound for a total value of $29.4 million dollars, down 35 percent from $44.9 million dollars in 1997.

Mohair production in the four major producing states (Arizona, New Mexico, Oklahoma, and Texas) during 1998 was 5.09 million pounds, down 26 percent from 1997. Goats and kids clipped, at 705,000 head, was down 25 percent from 1997. Average weight per clip was 7.2 pounds compared with 7.3 pounds a year earlier. Value of mohair was $12.6 million dollars, down 18 percent from 1997.

Wool: Production, Price, and Value, United States, 1996-98

Year	Sheep Shorn [1]	Weight per Fleece	Shorn Wool Production	Price per Pound	Value
	1,000 Head	*Pounds*	*1,000 Pounds*	*Dollars*	*1,000 Dollars*
1996	7,215	7.78	56,159	0.70	39,270
1997	6,960	7.70	53,578	0.84	44,909
1998	6,426	7.66	49,239	0.60	29,406

[1] Includes shearing at commercial feeding yards.

Mohair: Production, Price, and Value, 4-State Total, 1996-98

Year	Goats Clipped	Average Clip per Goat	Production	Price per Pound	Value
	1,000 Head	*Pounds*	*1,000 Pounds*	*Dollars*	*1,000 Dollars*
1996	1,189	6.7	8,009	1.93	15,428
1997	936	7.3	6,849	2.25	15,411
1998	705	7.2	5,089	2.48	12,623

Mohair: Production, Price, and Value by Selected States and 4-State Total, 1997-98

State	Goats Clipped		Average Clip per Goat		Production		Price per Pound		Value [1]	
	1997	1998	1997	1998	1997	1998	1997	1998	1997	1998
	1,000 Head	*1,000 Head*	*Pounds*	*Pounds*	*1,000 Pounds*	*1,000 Pounds*	*Dollars*	*Dollars*	*1,000 Dollars*	*1,000 Dollars*
AZ	38	36	4.2	4.5	160	162	1.70	1.25	272	203
NM	53	44	5.1	5.5	270	242	1.90	1.30	513	315
OK	5	5	7.0	7.0	35	35	2.00	1.75	70	61
TX	840	620	7.6	7.5	6,384	4,650	2.28	2.59	14,556	12,044
4 Sts	936	705	7.3	7.2	6,849	5,089	2.25	2.48	15,411	12,623

[1] Production multiplied by marketing year average price for individual States; 4-State value is summation of State values.

Wool: Number of Sheep and Lambs Shorn, Weight per Fleece, and Production by State and United States, 1997-98

State	Sheep Shorn		Weight per Fleece		Production	
	1997	1998	1997	1998	1997	1998
	1,000 Head	*1,000 Head*	*Pounds*	*Pounds*	*1,000 Pounds*	*1,000 Pounds*
AL	5.5	4.5	6.2	5.6	34	25
AK	1.2	1.2	7.5	6.7	9	8
AZ	120.0	120.0	6.4	6.5	770	780
CA	470.0	480.0	8.1	7.5	3,800	3,600
CO	600.0	490.0	6.6	6.9	3,936	3,364
CT	4.2	3.6	7.4	7.8	31	28
ID	246.0	222.0	9.2	9.4	2,265	2,093
IL	82.0	73.0	6.7	6.8	546	495
IN	55.0	57.0	6.3	6.5	344	370
IA	260.0	240.0	6.0	6.0	1,550	1,440
KS	98.0	93.0	7.0	7.0	690	650
KY	17.5	20.0	6.7	6.5	117	130
LA	6.8	6.6	5.9	6.1	40	40
ME	9.0	9.4	7.6	7.9	68	74
MD	15.0	16.0	6.9	6.5	104	104
MA	7.0	6.0	7.4	7.5	52	45
MI	62.0	58.0	7.3	7.4	450	430
MN	150.0	160.0	6.5	6.6	970	1,055
MO	71.0	83.0	7.0	7.3	500	605
MT	387.0	367.0	9.4	9.3	3,632	3,423
NE	85.0	91.0	7.6	7.3	644	660
NV	70.0	67.0	8.9	9.1	620	607
NH	5.6	5.6	7.1	6.6	40	37
NJ	9.0	8.5	7.0	7.1	63	60
NM	280.0	265.0	9.1	9.0	2,556	2,379
NY	51.0	45.0	6.7	6.8	343	307
NC	9.2	9.2	6.2	6.1	57	56
ND	98.0	98.0	8.8	9.2	860	900
OH	135.0	126.0	6.5	6.6	873	835
OK	51.0	40.0	6.5	6.0	330	240
OR	290.0	210.0	6.5	6.6	1,880	1,380
PA	64.0	69.0	6.9	6.8	440	470
SD	390.0	355.0	8.5	8.3	3,302	2,950
TN	11.0	11.0	6.1	5.9	67	65
TX	1,500.0	1,300.0	7.3	7.1	10,950	9,230
UT	344.0	337.0	9.3	9.4	3,213	3,157
VT	12.4	15.0	7.1	7.3	88	110
VA	49.9	45.0	6.0	6.4	300	288
WA	41.0	39.0	8.7	8.5	355	330
WV	40.0	35.0	6.0	6.0	240	210
WI	73.0	62.0	7.5	7.5	546	467
WY	650.0	650.0	8.8	8.5	5,690	5,540
Oth Sts [1]	33.6	32.5	6.3	6.2	213	202
US	6,959.9	6,426.1	7.7	7.7	53,578	49,239

[1] AR, DE, FL, GA, HI, MS, RI, and SC.

Wool: Price and Value by State and United States, 1997-98

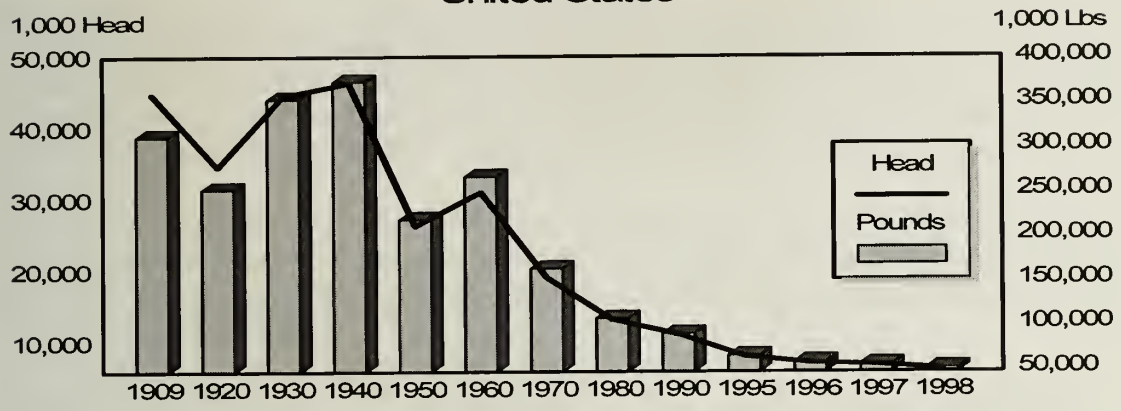
State	Price per Pound		Value [1]	
	1997	1998	1997	1998
	Dollars	*Dollars*	*1,000 Dollars*	*1,000 Dollars*
AL	0.48	0.38	16	10
AK	1.00	0.90	9	7
AZ	0.58	0.47	447	367
CA	0.79	0.61	3,002	2,196
CO	0.89	0.53	3,503	1,783
CT	0.55	0.55	17	15
ID	0.74	0.66	1,676	1,381
IL	0.43	0.25	235	124
IN	0.34	0.26	117	96
IA	0.42	0.26	651	374
KS	0.58	0.42	400	273
KY	0.41	0.32	48	42
LA	0.58	0.33	23	13
ME	0.50	0.55	34	41
MD	0.68	0.50	71	52
MA	0.60	0.40	31	18
MI	0.44	0.31	198	133
MN	0.43	0.34	417	359
MO	0.45	0.33	225	200
MT	1.01	0.78	3,668	2,670
NE	0.52	0.41	335	271
NV	0.90	0.58	558	352
NH	0.65	0.70	26	26
NJ	0.55	0.50	35	30
NM	1.07	0.89	2,735	2,117
NY	0.54	0.45	185	138
NC	0.59	0.49	34	27
ND	0.76	0.55	654	495
OH	0.43	0.32	375	267
OK	0.58	0.39	191	94
OR	0.61	0.48	1,147	662
PA	0.53	0.47	233	221
SD	0.90	0.59	2,972	1,741
TN	0.50	0.45	34	29
TX	1.06	0.63	11,607	5,815
UT	0.75	0.62	2,410	1,957
VT	0.65	0.50	57	55
VA	0.58	0.44	174	127
WA	0.65	0.55	231	182
WV	0.61	0.51	146	107
WI	0.53	0.39	289	182
WY	0.98	0.77	5,576	4,266
Oth Sts [2]	0.55	0.45	117	91
US	0.84	0.60	44,909	29,406

[1] Production multiplied by marketing year average price. U.S. value is summation of State values.
[2] AR, DE, FL, GA, MS, RI, SC.

Sheep & Lambs Shorn & Wool Production

1909 - 1998

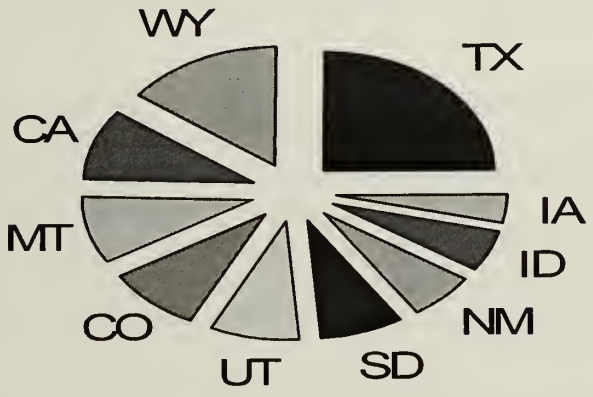
United States



Wool Production

Top Ten Producing States

1998



Reliability of Wool and Mohair Production Estimates

Survey Procedures: A random sample of U. S. producers was surveyed to provide data for the number of sheep shorn and production estimates. Survey procedures ensured that all sheep and goat producers, regardless of size, had a chance to be included in the survey. Large producers were sampled more heavily than small operations. Data were collected from about 14,500 operators during the first half of January by mail, telephone, and face-to-face personal interviews.

Estimation Procedures: These sheep shorn, wool and mohair production estimates were prepared by the Agricultural Statistics Board after reviewing recommendations and analysis submitted by each State office. National and State survey data were reviewed for reasonableness with each other and with estimates from past years.

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Reliability: Since all operations raising sheep and goats are not included in the sample for the inventory and production estimates, survey data are subject to sampling variability. Survey results for inventory and production estimates are also subject to non-sampling errors, such as omissions, duplications, and mistakes in reporting, recording, and processing the data. The effects of these errors cannot be measured directly. They are minimized through rigid quality controls in the data collection process and through a careful review of all reported data for consistency and reasonableness.

To assist users in evaluating the reliability of the estimates in this report, the "**Root Mean Square Error**" is shown for selected items in the table below. The "Root Mean Square Error" is a statistical measure based on past performance and is computed using the differences between first and latest estimates. The "Root Mean Square Error" for sheep shorn estimates over the past 10 years is 0.6 percent. This means that chances are 2 out of 3 that the final estimate will not be above or below the current estimate of 6.4 million head by more than 0.6 percent, or about 38,600 head. Chances are 9 out of 10 that the difference will not exceed 1.1 percent, or about 70,700 head (the 90 percent confidence level).

Also shown in the table is a 10-year record showing the range between the first estimate and the latest estimate. Using estimates for Sheep and Lambs Shorn as an example, changes between the first inventory estimate and the latest estimate during the past 10 years have averaged 45,000 head, ranging from 2 to 92,000 head. The initial inventory estimate of Sheep and Lambs Shorn has been below the latest estimate 6 times and above 4 times in the last 10 years.

Reliability of U.S. Sheep Shorn and Wool Production Estimates [1]

Item	Root Mean Square Error	90% Confidence Level		Difference Between First and Latest Estimates			Years	
				Average	Smallest	Largest	First Above Latest	First Below Latest
	Percent	*Percent*	*1,000 Head*	*1,000 Head*	*1,000 Head*	*1,000 Head*	*Number*	*Number*
Sheep Shorn	0.6	1.1	70.7	45.0	2.0	92.0	4	6
	Percent	*Percent*	*1,000 Pounds*	*1,000 Pounds*	*1,000 Pounds*	*1,000 Pounds*	*Number*	*Number*
Wool Prod	0.5	0.9	443.2	288.0	18.0	674.0	5	5

[1] Based on data for the past ten years.

The next "Wool and Mohair" report will be released in March 2000.

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Wool and Mohair

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1999 Wool Production Down 5 Percent

Shorn wool production in the United States during 1999 was 46.5 million pounds, down 5 percent from 1998. Sheep and lambs shorn totaled 6.15 million head, a decrease of 4 percent from 1998. The average price paid for wool sold in 1999 was $0.38 per pound for a total value of $17.9 million dollars, down 39 percent from $29.4 million dollars in 1998.

Mohair production in the three major producing states (Arizona, New Mexico, and Texas) during 1999 was 2.90 million pounds, down 43 percent from 1998. Goats and kids clipped, at 444,000 head, was down 37 percent from 1998. Average weight per clip was 6.5 pounds compared with 7.2 pounds a year earlier. Value of mohair was $10.0 million dollars, down 20 percent from 1998.

Wool: Production, Price, and Value, United States, 1997-1999

Year	Sheep Shorn [1]	Weight per Fleece	Shorn Wool Production	Price per Pound	Value
	1,000 Head	*Pounds*	*1,000 Pounds*	*Dollars*	*1,000 Dollars*
1997	6,960	7.70	53,578	0.84	44,909
1998	6,428	7.66	49,255	0.60	29,415
1999	6,150	7.57	46,549	0.38	17,852

[1] Includes shearing at commercial feeding yards.

Mohair: Production, Price, and Value, 3-State Total, 1997-1999

Year	Goats Clipped	Average Clip per Goat	Production	Price per Pound	Value
	1,000 Head	*Pounds*	*1,000 Pounds*	*Dollars*	*1,000 Dollars*
1997	931	7.3	6,814	2.25	15,341
1998	700	7.2	5,054	2.49	12,562
1999	444	6.5	2,896	3.46	10,016

Mohair: Production, Price, and Value by Selected States and 3-State Total, 1998-1999

State	Goats Clipped		Average Clip per Goat		Production		Price per Pound		Value [1]	
	1998	1999	1998	1999	1998	1999	1998	1999	1998	1999
	1,000 Head	*1,000 Head*	*Pounds*	*Pounds*	*1,000 Pounds*	*1,000 Pounds*	*Dollars*	*Dollars*	*1,000 Dollars*	*1,000 Dollars*
AZ	36	34	4.5	4.5	162	153	1.25	1.80	203	275
NM	44	35	5.5	5.5	242	193	1.30	1.85	315	357
TX	620	375	7.5	6.8	4,650	2,550	2.59	3.68	12,044	9,384
3 Sts	700	444	7.2	6.5	5,054	2,896	2.49	3.46	12,562	10,016

[1] Production multiplied by marketing year average price for individual States; 3-State value is summation of State values.

Wool: Number of Sheep and Lambs Shorn, Weight per Fleece, and Production by State and United States, 1998-1999

State	Sheep Shorn		Weight per Fleece		Production	
	1998	1999	1998	1999	1998	1999
	1,000 Head	*1,000 Head*	*Pounds*	*Pounds*	*1,000 Pounds*	*1,000 Pounds*
AZ	120.0	135.0	6.5	6.1	780	830
CA	480.0	480.0	7.5	7.6	3,600	3,630
CO	490.0	460.0	6.9	7.0	3,364	3,227
ID	222.0	237.0	9.4	9.3	2,093	2,194
IL	73.0	73.0	6.8	6.6	495	480
IN	57.0	59.0	6.5	5.8	370	340
IA	240.0	225.0	6.0	6.0	1,440	1,340
KS	93.0	90.0	7.0	7.0	650	630
MI	58.0	61.0	7.4	7.3	430	445
MN	160.0	150.0	6.6	6.7	1,055	1,000
MO	83.0	68.0	7.3	7.0	605	478
MT	367.0	336.0	9.3	9.5	3,423	3,196
NE	91.0	89.0	7.3	7.6	660	675
NV	67.0	74.0	9.1	9.1	607	670
N ENG [1]	43.0	43.0	7.3	7.3	312	312
NM	265.0	280.0	9.0	8.3	2,379	2,320
NY	45.0	49.0	6.8	6.8	307	333
ND	98.0	105.0	9.2	8.6	900	905
OH	126.0	124.0	6.6	6.6	835	817
OK	40.0	47.0	6.0	6.2	240	290
OR	210.0	197.0	6.6	6.3	1,380	1,246
PA	69.0	66.0	6.8	6.6	470	435
SD	355.0	345.0	8.3	8.2	2,950	2,845
TX	1,300.0	1,170.0	7.1	6.8	9,230	7,956
UT	337.0	320.0	9.4	9.4	3,157	3,010
VA	45.0	42.0	6.2	6.0	279	252
WA	39.0	42.0	8.5	8.4	330	353
WV	35.0	33.0	6.0	5.8	210	190
WI	62.0	65.0	7.5	7.3	467	475
WY	650.0	570.0	8.5	8.6	5,540	4,930
Oth Sts [2]	108.0	115.0	6.5	6.5	697	745
US	6,428.0	6,150.0	7.7	7.6	49,255	46,549

[1] N ENG includes CT, ME, MA, NH, RI, and VT.

[2] Other States include AL, AK, AR, DE, FL, GA, HI, KY, LA, MD, MS, NJ, NC, SC, and TN.

Wool: Price and Value by State and United States, 1998-1999

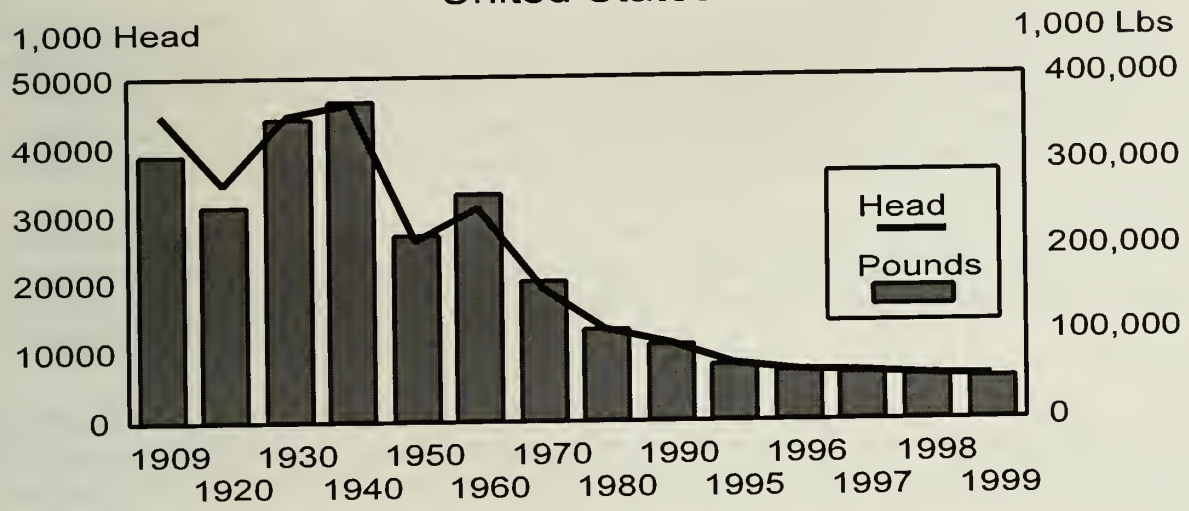
State	Price per Pound		Value [1]	
	1998	1999	1998	1999
	Dollars	*Dollars*	*1,000 Dollars*	*1,000 Dollars*
AZ	0.47	0.40	367	332
CA	0.61	0.35	2,196	1,271
CO	0.53	0.40	1,783	1,291
ID	0.66	0.36	1,381	790
IL	0.25	0.12	124	58
IN	0.26	0.14	96	48
IA	0.26	0.16	374	214
KS	0.42	0.19	273	120
MI	0.31	0.14	133	62
MN	0.34	0.15	359	150
MO	0.33	0.14	200	67
MT	0.78	0.50	2,670	1,598
NE	0.41	0.24	271	162
NV	0.58	0.33	352	221
N ENG [2]	0.52	0.33	162	103
NM	0.89	0.56	2,117	1,299
NY	0.45	0.28	138	93
ND	0.55	0.30	495	272
OH	0.32	0.20	267	163
OK	0.39	0.25	94	73
OR	0.48	0.30	662	374
PA	0.47	0.32	221	139
SD	0.59	0.36	1,741	1,024
TX	0.63	0.49	5,815	3,898
UT	0.62	0.32	1,957	963
VA	0.44	0.30	123	76
WA	0.55	0.40	182	141
WV	0.51	0.24	107	46
WI	0.39	0.19	182	90
WY	0.77	0.49	4,266	2,416
Oth Sts [3]	0.44	0.40	307	298
US	0.60	0.38	29,415	17,852

[1] Production multiplied by marketing year average price. U.S. value is summation of State values.

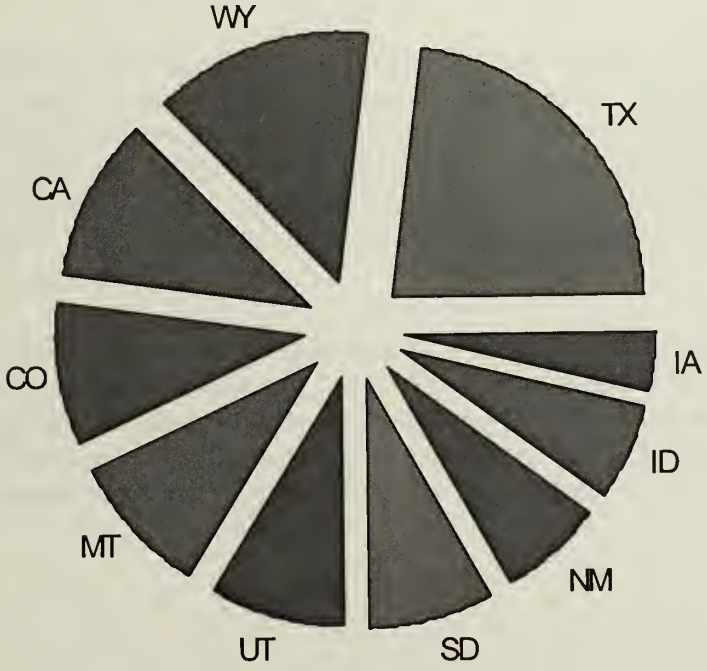
[2] N ENG includes CT, ME, MA, NH, RI, and VT.

[3] Other States include AL, AK, AR, DE, FL, GA, HI, KY, LA, MD, MS, NJ, NC, SC, and TN.

Sheep & Lambs Shorn & Wool Production
1909 - 1999
United States



Wool Production
Top Ten Producing States
1999



Reliability of Wool and Mohair Production Estimates

Survey Procedures: A random sample of U. S. producers was surveyed to provide data for the number of sheep shorn and production estimates. Survey procedures ensured that all sheep and goat producers, regardless of size, had a chance to be included in the survey. Large producers were sampled more heavily than small operations. Data were collected from about 13,800 operators during the first half of January by mail, telephone, and face-to-face personal interviews.

Estimation Procedures: These sheep shorn, wool and mohair production estimates were prepared by the Agricultural Statistics Board after reviewing recommendations and analysis submitted by each State office. National and State survey data were reviewed for reasonableness with each other and with estimates from past years.

Revision Policy: Revisions to previous estimates are made to improve the current estimate. Previous year estimates are subject to revision when current estimates are made. Inventory estimates will also be reviewed after data from the Department of Agriculture's five-year Census of Agriculture are available. No revisions will be made after that date.

Reliability: Since all operations raising sheep and goats are not included in the sample for the inventory and production estimates, survey data are subject to sampling variability. Survey results for inventory and production estimates are also subject to non-sampling errors, such as omissions, duplications, and mistakes in reporting, recording, and processing the data. The effects of these errors cannot be measured directly. They are minimized through rigid quality controls in the data collection process and through a careful review of all reported data for consistency and reasonableness.

To assist users in evaluating the reliability of the estimates in this report, the "**Root Mean Square Error**" is shown for selected items in the table below. The "Root Mean Square Error" is a statistical measure based on past performance and is computed using the differences between first and latest estimates. The "Root Mean Square Error" for sheep shorn estimates over the past 10 years is0.6 percent. This means that chances are 2 out of 3 that the final estimate will not be above or below the current estimate of 6.2 million head by more than 0.6 percent. Chances are 9 out of 10 that the difference will not exceed 1.0 percent.

Also shown in the table is a 10-year record showing the range between the first estimate and the latest estimate. Using estimates for Sheep and Lambs Shorn as an example, changes between the first inventory estimate and the latest estimate during the past 10 years have averaged 39,000 head, ranging from 2 to 92,000 head. The initial inventory estimate of Sheep and Lambs Shorn has been below the latest estimate 6 times and above 4 times in the last 10 years.

Reliability of U.S. Sheep Shorn and Wool Production Estimates [1]

Item	Root Mean Square Error	90% Confidence Level		Difference Between First and Latest Estimates			Years	
				Average	Smallest	Largest	First Above Latest	First Below Latest
	Percent	*Percent*	*1,000 Head*	*1,000 Head*	*1,000 Head*	*1,000 Head*	*Number*	*Number*
Sheep Shorn	0.6	1.0	61.5	39.0	2.0	92.0	4	6
	Percent	*Percent*	*1,000 Pounds*	*1,000 Pounds*	*1,000 Pounds*	*1,000 Pounds*	*Number*	*Number*
Wool Prod	0.5	0.9	418.9	267.0	18.0	674.0	5	5

[1] Based on data for the past ten years.

The next "Wool and Mohair" report will be released in January 2001.

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